

- 14 -

## WHAT IS CLAIMED IS:

1. A composite sheet comprising a thermoplastic synthetic resin film and a thermoplastic synthetic resin fibrous sheet  
5 bonded to at least one of upper and lower surfaces of said film, wherein:

said film is formed on its surface opposed to said fibrous sheet with a plurality of bulgy zones extending in one direction in parallel and spaced apart from one another and substantially  
10 flat zones each defined between each pair of the adjacent bulgy zones wherein said film is welded along said bulgy zones to said fibrous sheet.

2. The composite sheet according to Claim 1, wherein said  
15 film is made of thermoplastic elastomer resin.

3. The composite sheet according to Claim 2, wherein said thermoplastic elastomer resin is selected from a group including urethane-, ester- and amide-based thermoplastic  
20 elastomer resin and said film is substantially non-porous and moisture-pervious.

4. The composite sheet according to Claim 1, wherein said

- 15 -

fibrous sheet is formed with a fibrous nonwoven fabric made of said thermoplastic synthetic resin fibers.

5. The composite sheet according to Claim 4, wherein said  
5 nonwoven fabric is an elastically stretchable nonwoven fabric obtained by melt-spinning thermoplastic elastomer resin and said film is bonded along its bulgy zones to said elastically stretchable nonwoven fabric under no tension.

10 6. The composite sheet according to Claim 1, wherein each of said bulgy zones has a width of 0.2 ~ 2.0 mm and the maximum thickness of 40 ~ 150  $\mu\text{m}$  and each of said flat zones has a thickness of 5 ~ 100  $\mu\text{m}$ .

15 7. The composite sheet according to Claim 1, wherein said composite sheet has a water-resistance of 49 hpa or higher as measured in accordance with JIS L 1092A method.

20 8. The composite sheet according to Claim 1, wherein said composite sheet has a moisture-permeability of 3000  $\text{g/m}^2 \cdot 24$  Hr or higher as measured in accordance with JIS L 1099A method.